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ANALYSIS OF CONTRACTS AWARDED CALENDAR YEAR 1973



PREPARED BY THE
STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

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CONTRACT ANALYSES
Calendar Year 1973

FOREWORD

The attached tabulations have been prepared from the Detailed Estimate and Contract Award sheet for all contracts awarded during the calendar year 1971. A brief explanation of each of the following tables is provided to help in the interpretation of the figures and to lessen the possibility of erroneous conclusions.

Table 1 - Summary of New and Reconstructed Roadway Only, by County and Financial District.

This table is intended to inform the user of how many actual miles of roadway were let to contract and the costs involved. It includes all items pertinent to the same section of roadway except structures.

Table 1A - Summary of Total Amounts Awarded by County and Financial District.

This table is a total of all miles and costs involved regardless of the type of project. Besides roadway costs, it includes signing, lighting, fencing and bridge projects.

Table 2 - Summary of Roadway Mileage Awarded by Systems.

The table involves the same type of construction as Table 1. Table 2, however, provides a cost per mile figure for the different systems and also provides a simple analysis of benefits by inclusion of the "cost per annual vehicle mile."

Table 3-3A-3B-3C-3D - Summary of Type of Construction.

A separate table has been prepared for each Federal Aid System with all projects including signing and Fencing classified into 10 different categories. The purpose of this table is to give a general indication of what type of construction is responsible for the major share of monies spent. For example, note the bulk of Interstate monies is spent for New Construction, whereas, the greater share for Primary and Secondary is spent for Reconstruction.

Table 4-4A-4C - Summary by Surface Type by Systems.

These tables indicate the average cost per mile of various items included in a completed roadway by type of surfacing. Caution should be exercised in using the average cost per mile data due to the small sample involved for some cost items.

Table 5 - Summary of Roadway Mileage Awarded by Number of Traffic Lanes.

This table deals with the same miles and costs involved in Tables 1 and 2.

Table 6-6A-6C-6D - Summary of Structures by Type.

These tables summarize the number of structures let by type and also provide a cost per square foot, by type of structure.

Table 7-7A-7B-7C-7D - Summary of Roadway Mileage Awarded by ADT.

The table involves only actual roadway constructed, as Tables 1, 2 and 5 and provides a relationship between the volumes of traffic, miles constructed and costs. It is possible to further develop this table to obtain a road user benefit on a vehicle mile basis.

Table 8 - Summary of Contracted and Non-contracted Costs by System.

Some items, such as railroad flagging, roadway materials, detours and traffic control devices are considered non-contract items in certain instances. The costs of such items are included in the Detailed Estimate, but not in the Contract Award Amount. This table tabulates the two costs for the users information.

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1973

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED
JUNE 06, 1974

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	INTERSTATE SYSTEM COST	PRIMARY SYSTEM MILES	PRIMARY SYSTEM COST	SECONDARY SYSTEM MILES	SECONDARY SYSTEM COST	OTHER SYSTEMS MILES	OTHER SYSTEMS COST	ALL SYSTEMS MILES	ALL SYSTEMS COST
FLATHEAD FD #01	---	---	4.264 4.264	810,809 810,809	---	---	---	---	4.264 4.264	810,809 810,809
GLACIER FD #02	---	---	.882 .889	749,882 749,882	---	---	---	---	.882 .889	749,882 749,882
VALLEY FD #03	---	---	---	---	11.735 11.735	848,539 848,539	---	---	11.735 11.735	848,539 848,539
MC CONE RICHLAND FD #04	---	---	1.429 1.429	742,775 742,775	7.810 7.810	742,775 742,775	---	---	7.810 1.429 9.239	742,775 504,752 1,147,567
CASCADE CHOUTEAU FD #06	---	---	1.206 12.039	212,291 1,816,866 1,816,866	1.206 1.206	212,291 212,291	---	---	1.206 12.039 13.245	212,291 1,816,866 2,029,157
LEWIS & CLARK FD #07	---	---	---	---	2.507 2.507	491,686 491,686	---	---	2.507 2.507	491,686 491,686
MISSOULA RAVALLI FD #08	---	---	7.626 2.427 10.923	1,563,529 580,820 2,144,419	---	---	---	---	7.626 3.427 10.923	1,563,529 580,820 2,144,419
SILVER BOW FD #09	7.768 7.768	2,694,877 2,694,877	---	---	---	---	---	---	7.768 7.768	2,694,877 2,694,877
GALLATIN PARK	5.247	1,149,253	.545 8.948	585,603 1,753,898	.197	232,050	---	---	5.989 8.948	1,966,506 1,753,898
SWEET GRASS FD #10	5.247	1,149,253	9.493	2,339,501	.634 .931	158,167 390,217	---	---	15.571 15.571	3,876,971 3,876,971
BIG HORN CARBON FD #11	---	---	5.621 10.137 15.758	1,141,956 1,634,732 2,776,691	---	---	---	---	5.621 10.137 15.758	1,141,956 1,634,732 2,776,691
CUSTER POWDER RIVER	8.163	2,153,807	6.552 2.610	1,753,970 1,111,828	---	---	---	---	14.716 2.610	3,947,772 1,111,828

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1973

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED
JUNE 06, 1974

TABLE 1

COUNTY AND FINANCIAL DISTRICT FD #12	INTERSTATE MILES	SYSTEM COST	PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
			MILES	COST	MILES	COST	MILES	COST	MILES	COST
	3.182	2,193,802	12.443	2,365,868					20.626	5,059,670
TOTAL	21.198	6,037,932	67.238	13,908,828	24.089	2,685,508			112.525	22,632,268

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF TOTAL AMOUNTS AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1973
TABLE 1A

JUNE 06, 1974

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	PRIMARY SYSTEM MILES	PRIMARY SYSTEM COST	SECONDARY SYSTEM MILES	SECONDARY SYSTEM COST	OTHER SYSTEMS MILES	OTHER SYSTEMS COST	ALL SYSTEMS MILES	ALL SYSTEMS COST
FLATHEAD LAKE LINCOLN FD #01	-----	4.264	1,122,707 18,568 82,482 1,226,764	-----	-----	-----	-----	4.264	1,122,707 18,568 82,482 1,226,764
BLAINE GLACIER HILL LIBERTY FD #02	-----	.889	6,395 754,957 ----- 761,352	-----	4,629 32,400 406,252 443,282	-----	-----	.889	11,024 754,957 32,400 406,252 1,204,640
PHILLIPS VALLEY FD #03	-----	-----	-----	11.735 11.735	1,541 848,539 850,080	-----	-----	11.735 11.735	1,541 848,539 850,080
DAWSON MC CONE RICHLAND FD #04	-----	1.429 1.429	16,960 ----- 636,470 637,430	7.810 ----- 7.810	12,447 892,220 112,411 1,024,078	-----	-----	7.810 1.429 9.239	25,407 892,220 789,881 1,711,508
FERGUS FD #05	-----	-----	-----	-----	67,302 67,308	-----	-----	-----	67,302 67,308
CASCADE CHUTEAU PONDERA TETON FD #06	-----	12.039	665,744 ----- 11,025 2,040 985,829	1.206 ----- 1.206	212,291 ----- 17,028 229,389	-----	-----	1.206 12.039	1,301,716 2,278,517 11,025 2,040 3,617,416
BROADWATER JEFFERSON LEWIS & CLARK FD #07	-----	-----	17,994 ----- 17,994	2.507 2.507	7,601 491,685 499,287	-----	-----	2.507 2.507	7,601 17,994 491,685 499,287
MISSOULA RAVALLI FD #08	-----	7.626	1,817,075 ----- 624,834 2,421,913	-----	78,332 ----- 78,332	-----	-----	7.626 3.227 10.923	1,935,873 604,834 2,540,707
DEER LODGE MADISON SILVER BOW FD #09	7.768 7.768	-----	3,089,572 3,089,572	6.245 6.245	8,159 271,535 275,654	-----	-----	6.245 7.768 14.013	8,159 271,535 5,116,022 3,395,726

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU
SUMMARY OF TOTAL AMOUNTS AWARDED
BY COUNTY AND FINANCIAL DISTRICT
DURING CALENDAR YEAR 1973
TABLE 1A

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS		JUNE	JUNE 1974
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST		
GALLATIN	5.247	1,377,001	5.545	598,948	.197	232,050			5.59	2,207,999		
PARA			6.948	2,024,637		22,870			6.948	2,047,507		
SWEET GRASS					.634	342,594			.634	342,594		
WHEATLAND						323,816				323,816		
FD #10		1,577,001		2,623,585	.831	951,330			15.571	4,951,916		
RIG HORN			5.621	1,263,175					5.621	1,263,175		
CARBON			10.137	1,787,746					10.137	1,787,746		
STILLWATER		2,828								92,828		
YELLOWSTONE	15.436	4,665,085		12,721				15.641	15.641	4,655,616		
FD #11	15.436	4,665,085		3,004,642				19,831	31.194	7,769,359		
CARTER				11,818						11,818		
CUSTER	9.183	2,280,884	6.533	1,753,970					14.716	4,034,854		
POWDER RIVER			5.910	1,149,451					5.910	1,149,451		
ROSEBUD				4,524						4,524		
FD #12	8.183	2,280,884	12.443	4,924,763					20.626	5,205,647		
TOTAL	26.634	12,476,828	67.238	16,296,335	30.234	4,422,786		19,831	134.206	33,215,580		

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILLAGE AWARDED BY SYSTEMS
DURING CALENDAR YEAR 1973
THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAYS
TABLE 2

JUNE 06, 1974

SYSTEM	MILEAGE	TOTAL COST	COST PER MILE	ANNUAL VEHICLE MILES	COST PER ANNUAL VEHICLE MILE
RURAL					
INTERSTATE RURAL	17,798	5,690,036	267,404	14,246,315	00.359
PRIMARY RURAL	5,080	12,563,443	193,000	30,741,355	00.408
SECONDARY RURAL	23,892	2,453,458	102,689	1,257,425	01.551
OTHER					00.000
SUBTOTAL RURAL	108,770	20,703,937	190,346	46,245,135	00.447
MUNICIPAL					
INTERSTATE MUNICIPAL	1,400	347,896	248,497	1,200,120	00.289
PRIMARY MUNICIPAL	2,158	1,348,395	624,830	3,310,185	00.407
SECONDARY MUNICIPAL	.197	232,050	177,918	396,025	00.585
OTHER					00.000
SUBTOTAL MUNICIPAL	3,755	1,928,331	513,536	4,506,330	00.353
TOTAL BY SYSTEM					
INTERSTATE	21,198	6,037,932	284,834	15,446,435	00.390
PRIMARY	67,238	13,908,828	206,859	34,051,580	00.408
SECONDARY	24,089	2,685,508	111,482	1,653,450	01.624
OTHER					00.000
GRAND TOTAL	112,525	22,632,268	201,131	51,151,465	00.442

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1973
BY SYSTEM
TABLE 3

JUNE 06 1974

TYPE OF CONSTRUCTION	<u>INTERSTATE</u>	
	MILES	COST
RURAL		
NEW CONSTRUCTION	9.828	3,196,497
RECONSTRUCTION		
ADD TWO LANES	9.970	2,493,539
MAJOR STRUCTURES		510,776
RESURFACE		
STAGE CONSTRUCTION	15.436	3,634,835
TRAFFIC CONTROL, SEEDING & FENCING		2,047,710
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,082
TOTAL		11,970,439
MUNICIPAL		
NEW CONSTRUCTION	1.400	347, 96
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		158,493
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		506,389
ALL CONSTRUCTION		
NEW CONSTRUCTION	11.228	3,544,393
RECONSTRUCTION		
ADD TWO LANES	9.970	2,493,539
MAJOR STRUCTURES		510,776
RESURFACE		
STAGE CONSTRUCTION	15.436	3,634,835
TRAFFIC CONTROL, SEEDING & FENCING		2,206,203
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,082
TOTAL		12,476,828

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1973
BY SYSTEM
TABLE 3A

JUNE 06, 1974

TYPE OF CONSTRUCTION	<u>PRIMARY 1</u>	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION	65.080	12,560,443
ADD TWO LANES		
MAJOR STRUCTURES		1,312,427
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		545,675
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		16,288
TOTAL		14,434,833
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION	2.158	1,348,385
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		491,906
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		13,345
OTHER		7,866
TOTAL		1,861,502
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION	67.238	13,908,828
ADD TWO LANES		
MAJOR STRUCTURES		1,312,427
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		1,037,581
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		13,345
OTHER		24,154
TOTAL		16,296,335

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1973
BY SYSTEM
TABLE 3C

JUNE 06, 1974

TYPE OF CONSTRUCTION	SECONDARY	
	MILES	COST
RURAL		
NEW CONSTRUCTION	10.317	1,234,461
RECONSTRUCTION	13.575	1,218,997
ADD TWO LANES		
MAJOR STRUCTURES		476,299
RESURFACE		716,724
STAGE CONSTRUCTION	6.245	271,535
TRAFFIC CONTROL, SEEDING & FENCING		89,969
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,643
TOTAL		4,095,628
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION	.197	232,050
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		95,108
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		327,158
ALL CONSTRUCTION		
NEW CONSTRUCTION	10.317	1,234,461
RECONSTRUCTION	13.772	1,451,047
ADD TWO LANES		
MAJOR STRUCTURES		476,299
RESURFACE		716,724
STAGE CONSTRUCTION	6.245	271,535
TRAFFIC CONTROL, SEEDING & FENCING		185,077
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		87,643
TOTAL		4,422,786

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF TYPE OF CONSTRUCTION
DURING CALENDAR YEAR 1973
BY SYSTEM
TABLE 3D

JUNE 06, 1974

TYPE OF CONSTRUCTION	<u>OTHER</u>	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		19,631
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		19,631
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		19,631
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		19,631

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1973
INTERSTATE SYSTEM

TABLE 4

JUNE 6, 1974

COST ITEM		STAGE	SURFACE TYPE	CONCRETE	ALL CONST.	MISC. ITEMS
		CONSTR.	BITUM. MIX			
GRADING	MILES	4.193	32.441		36.634	
	COST	1,423,487	1,999,472		3,422,959	162,852
	COST/MILE	339,491	61,634		93,436	
DRAINAGE	MILES	4.193	31.041		35.234	
	COST	182,403	444,833		627,236	141,347
	COST/MILE	43,501	14,330		17,802	
FOUNDATION	MILES	4.193	32.441		36.634	
	COST	510	1,550,301		1,550,811	12,499
	COST/MILE	121	47,788		42,332	
SURFACING	MILES	4.193	32.441		36.634	
	COST	6,540	2,756,292		2,762,832	137,253
	COST/MILE	1,559	84,963		75,417	
RDSIDE DEVEL.	MILES		8.259		8.259	
	COST		253,660		253,660	227,298
	COST/MILE		30,713		30,713	
EROSION CTL.	MILES	4.193	32.441		36.634	
	COST	76,939	184,982		261,921	139,735
	COST/MILE	18,349	5,702		7,149	
TRAFFIC CTL.	MILES	4.193	32.441		36.634	
	COST	2,000	614,287		616,287	1,228,042
	COST/MILE	476	18,935		16,822	
FENCING	MILES	4.193	22.782		26.975	
	COST	41,744	174,542		216,286	41,675
	COST/MILE	9,955	7,661		8,018	
MISC.	MILES	4.193	32.441		36.634	
	COST	1,600	129,792		131,392	162,122
	COST/MILE	381	4,000		3,586	
BRIDGES	SQ. FEET					24,704
	COST					511,576
	COST/SQ. FOOT					20.708
ALL ITEMS	MILES	4.193	32.441		36.634	
	COST	1,735,223	8,108,161		9,843,384	2,764,399
	COST/MILE	413,838	249,935		268,695	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1973
PRIMARY SYSTEM

TABLE 4A

JUNE 6, 1974

COST ITEM		SURFACE TYPE			ALL	MISC.
		GRAVEL	BITUM. MIX	CONCRETE	CONST.	ITEMS
GRADING	MILES		67.238		67.238	
	COST		4,268,392		4,268,392	17,047
	COST/MILE		63,481		63,481	
DRAINAGE	MILES		67.238		67.238	
	COST		1,687,847		1,687,847	20,882
	COST/MILE		25,102		25,102	
FOUNDATION	MILES		67.238		67.238	
	COST		2,623,037		2,623,037	259
	COST/MILE		39,011		39,011	
SURFACING	MILES		67.238		67.238	
	COST		2,919,122		2,919,122	5,982
	COST/MILE		43,414		43,414	
RDSIDE DEVEL.	MILES		8.486		8.486	
	COST		234,317		234,317	1,540
	COST/MILE		27,612		27,612	
EROSION CTL.	MILES		67.238		67.238	
	COST		693,445		693,445	8,800
	COST/MILE		10,313		10,313	
TRAFFIC CTL.	MILES		67.096		67.096	
	COST		838,528		838,528	898,725
	COST/MILE		12,497		12,497	
FENCING	MILES		55.005		55.005	
	COST		234,270		234,270	
	COST/MILE		4,259		4,259	
MISC.	MILES		67.238		67.238	
	COST		641,942		641,942	23,403
	COST/MILE		9,547		9,547	
BRIDGES	SQ. FEET					59,800
	COST					1,320,727
	COST/SQ. FOOT					22.085
ALL ITEMS	MILES		67.238		67.238	
	COST		14,140,900		14,140,900	2,297,365
	COST/MILE		210,311		210,311	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY BY SURFACE TYPE
DURING CALENDAR YEAR 1973
SECONDARY SYSTEM

TABLE 4C

JUNE 6, 1974

COST ITEM		SURFACE TYPE			ALL	MISC.
		GRAVEL	BITUM. MIX	CONCRETE	CONST.	ITEMS
GRADING	MILES		30.334		30.334	
	COST		844,718		844,718	
	COST/MILE		27,847		27,847	
DRAINAGE	MILES		24.089		24.089	
	COST		272,919		272,919	
	COST/MILE		11,329		11,329	
FOUNDATION	MILES		30.334		30.334	
	COST		614,316		614,316	
	COST/MILE		20,251		20,251	
SURFACING	MILES		30.334		30.334	
	COST		1,340,955		1,340,955	
	COST/MILE		44,206		44,206	
RDSIDE DEVEL.	MILES		.197		.197	
	COST		42,055		42,055	
	COST/MILE		213,477		213,477	
EROSION CTL.	MILES		30.334		30.334	
	COST		150,255		150,255	
	COST/MILE		4,953		4,953	
TRAFFIC CTL.	MILES		30.334		30.334	
	COST		283,525		283,525	103,699
	COST/MILE		9,346		9,346	
FENCING	MILES		19.545		19.545	
	COST		135,389		135,389	
	COST/MILE		6,927		6,927	
MISC.	MILES		30.334		30.334	
	COST		188,300		188,300	3,046
	COST/MILE		6,207		6,207	
BRIDGES	SQ. FEET					17,152
	COST					476,299
	COST/SQ. FOOT					27.769
ALL ITEMS	MILES		30.334		30.334	
	COST		3,872,432		3,872,432	583,044
	COST/MILE		127,659		127,659	

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED BY NUMBER OF TRAFFIC LANES
DURING CALENDAR YEAR 1973

TABLE 5

JUNE 06, 1974

NO. LANES	MILES	COST	COST/MILE
INTERSTATE SYSTEM			
2	9.970	2,493,539	250,104
4	11.228	3,544,393	315,674
TOTAL	21.198	6,037,932	284,834
PRIMARY SYSTEM			
2	65.328	12,458,006	190,699
4	1.910	1,450,822	759,592
TOTAL	67.238	13,908,828	206,859
SECONDARY SYSTEM			
2	24.089	2,685,508	111,482
4			
TOTAL	24.089	2,685,508	111,482
ALL SYSTEMS			
2	99.387	17,637,053	177,458
4	13.138	4,995,215	380,211
TOTAL	112.525	22,632,268	201,131

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
 PLANNING AND RESEARCH BUREAU
 SUMMARY OF STRUCTURES BY TYPE
 DURING CALENDAR YEAR 1973

TABLE 6

INTERSTATE SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X220	1	4,992	116,081	23.253
CONC. PRESTR. GIRD.	X281	1	10,624	214,964	20.234
	X781	1	9,088	180,531	19.864
		3	24,704	511,576	20.708

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
 PLANNING AND RESEARCH BUREAU
 SUMMARY OF STRUCTURES BY TYPE
 DURING CALENDAR YEAR 1973

TABLE 6A

PRIMARY I SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
STEEL-CONC. GIRD	X141	1	24,288	469,951	19.349
CONC. PRESTR. GIRD.	X081	5	35,512	850,776	23.957
		6	59,800	1,320,727	22.085

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
 PLANNING AND RESEARCH BUREAU
 SUMMARY OF STRUCTURES BY TYPE
 DURING CALENDAR YEAR 1973

TABLE 6C

SECONDARY SYSTEM

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	3,960	99,076	25.019
CONC. PRESTR. GIRD.	X081	3	13,192	377,223	28.594
		4	17,152	476,299	27.769

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
 PLANNING AND RESEARCH BUREAU
 SUMMARY OF STRUCTURES BY TYPE
 DURING CALENDAR YEAR 1973

TABLE 6D

ALL SYSTEMS

MAY

31, 1974

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X020	1	3,960	99,076	25.019
	X220	1	4,992	118,081	23.253
STEEL-CONC. GIRD	X141	1	24,288	469,551	19.349
CONC. PRESTR. GIRD.	X081	8	48,704	1,227,999	25.213
	X281	1	10,624	214,564	20.234
	X781	1	9,088	180,531	19.864
		13	101,656	2,308,602	22.710

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY AVERAGE DAILY TRAFFIC
(NEW OR RECONSTRUCTED ROADWAY ONLY)
DURING CALENDAR YEAR 1973

TABLE 7

MAY 31, 1974

SYSTEM - INTERSTATE

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	.000		
0300-0399	.000		
0400-0499	.000		
0500-0999	.000		
1000-1499	7.768	\$ 2,694,877	\$ 346,920
1500-1999	.000		
2000-2999	13.430	\$ 3,343,055	\$ 248,924
3000-4999	.000		
5000-OVER	.000		
TOTAL	21.198	\$ 6,037,932	\$ 284,834

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY AVERAGE DAILY TRAFFIC
(NEW OR RECONSTRUCTED ROADWAY ONLY)
DURING CALENDAR YEAR 1973

TABLE 7A

MAY

31, 1974

SYSTEM - PRIMARY I

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.000		
0200-0299	.000		
0300-0399	11.554	\$ 2,348,166	\$ 203,234
0400-0499	6.533	\$ 1,753,970	\$ 268,478
0500-0999	20.964	\$ 3,476,452	\$ 165,829
1000-1499	11.566	\$ 2,039,527	\$ 176,338
1500-1999	.870	\$ 402,631	\$ 462,794
2000-2999	5.301	\$ 1,044,925	\$ 197,118
3000-4999	9.763	\$ 2,219,835	\$ 227,372
5000-OVER	.687	\$ 623,322	\$ 907,310
TOTAL	67.238	\$ 13,908,828	\$ 206,859

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF ROADWAY MILEAGE AWARDED
BY AVERAGE DAILY TRAFFIC
(NEW OR RECONSTRUCTED ROADWAY ONLY)
DURING CALENDAR YEAR 1973

TABLE 7B

MAY

31, 1974

SYSTEM - SECONDARY

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	20.179	\$ 1,749,481	\$ 86,698
0200-0299	2.507	\$ 491,686	\$ 196,125
0300-0399	.000		
0400-0499	.000		
0500-0999	1.206	\$ 212,291	\$ 176,029
1000-1499	.000		
1500-1999	.000		
2000-2999	.000		
3000-4999	.000		
5000-OVER	.197	\$ 232,050	\$ 1,177,918
TOTAL	24.089	\$ 2,685,508	\$ 111,482

STATE OF MONTANA DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

SUMMARY OF CONTRACTED AND
NON-CONTRACTED COSTS BY SYSTEM
DURING CALENDAR YEAR 1973

TABLE 8

MAY 31, 1974

SYSTEM	CONTRACTED COST	NON CONTRACTED COST	TOTAL
INTERSTATE	\$ 12,476,828	\$ 1,391,701	\$ 13,868,529
PRIMARY I	\$ 16,296,335	\$ 2,607,606	\$ 18,903,941
SECONDARY	\$ 4,422,786	\$ 690,370	\$ 5,113,156
OTHER	\$ 19,631	\$ 3,001	\$ 22,632
TOTAL	\$ 33,215,580	\$ 4,692,678	\$ 37,908,258

